Title: SYSTEMS AND METHODS FOR PREPARING & ANALYZING LOW VOLUME ANALYTE ARR ELEMENTS.
Applicant: Little et al.
Serial No. 08/786,988 Filed: January 23, 1997
Our Docket No.: 24736-2001D

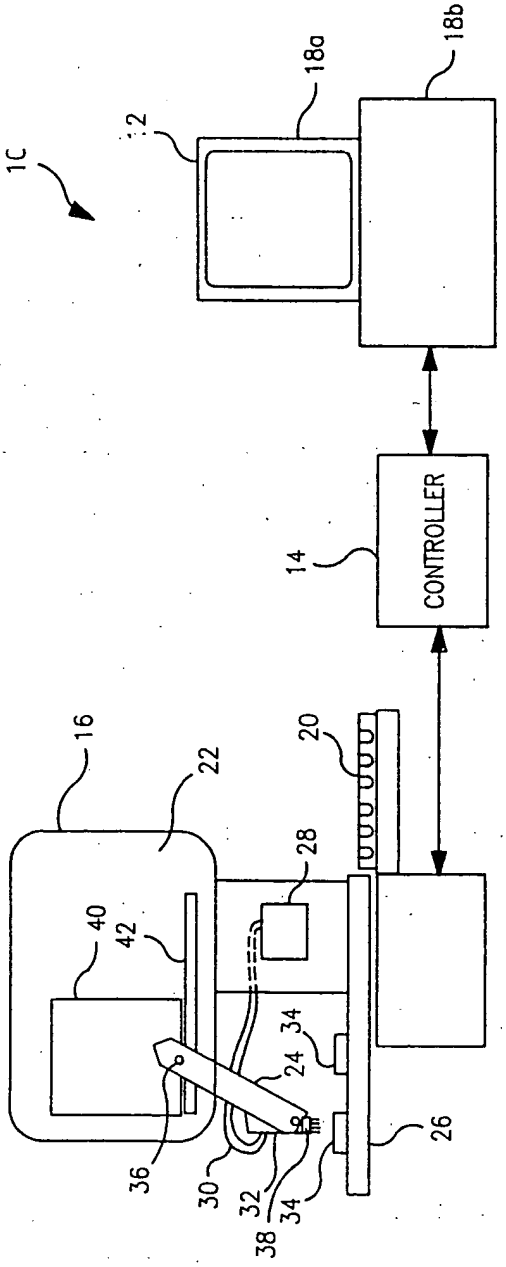

FIG. 1

Title: SYSTEMS AND METHODS FOR PRE[illegible]G AND ANALYZING LOW VOLUME ANALY[illegible]RAY ELEMENTS.
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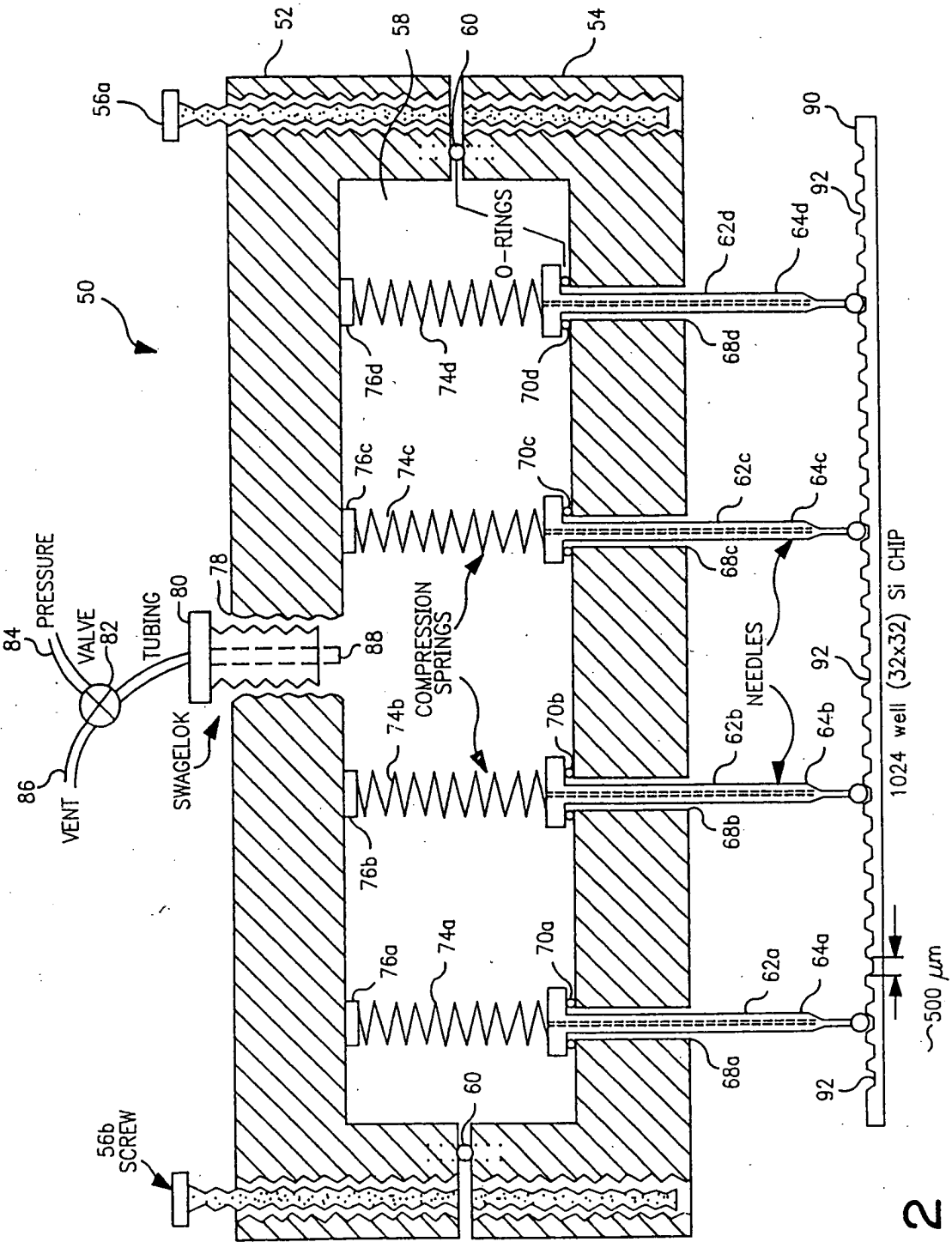

FIG. 2

Title: SYSTEMS AND METHODS FOR PREPA[redacted] AND ANALYZING LOW VOLUME ANALYT[redacted]AY ELEMENTS.
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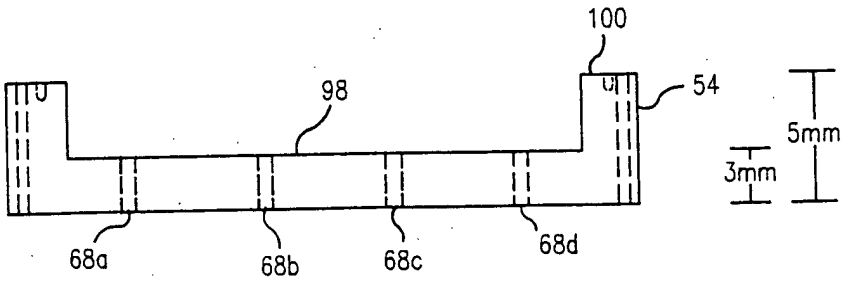

FIG. 3

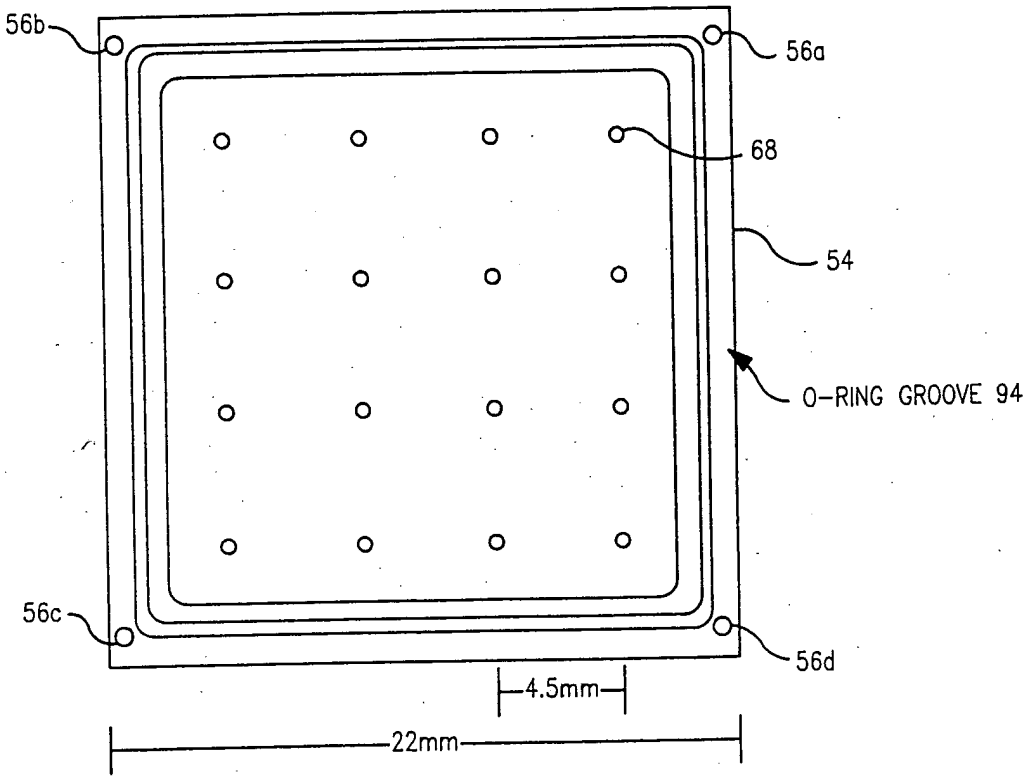

FIG. 4

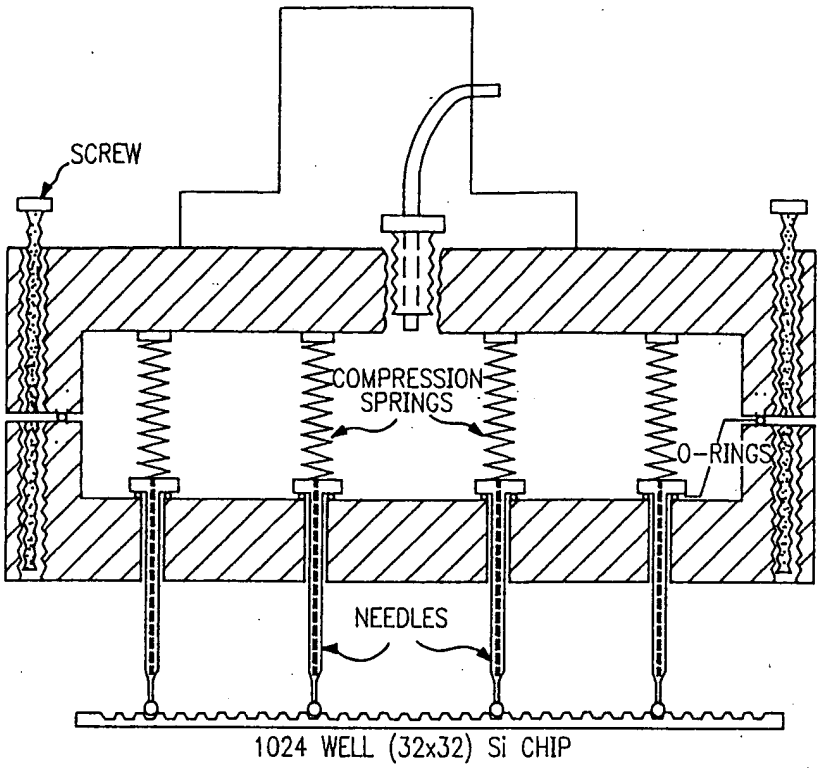
SCREW
COMPRESSION SPRINGS
O-RINGS
NEEDLES
1024 WELL (32x32) Si CHIP

FIG. 5A

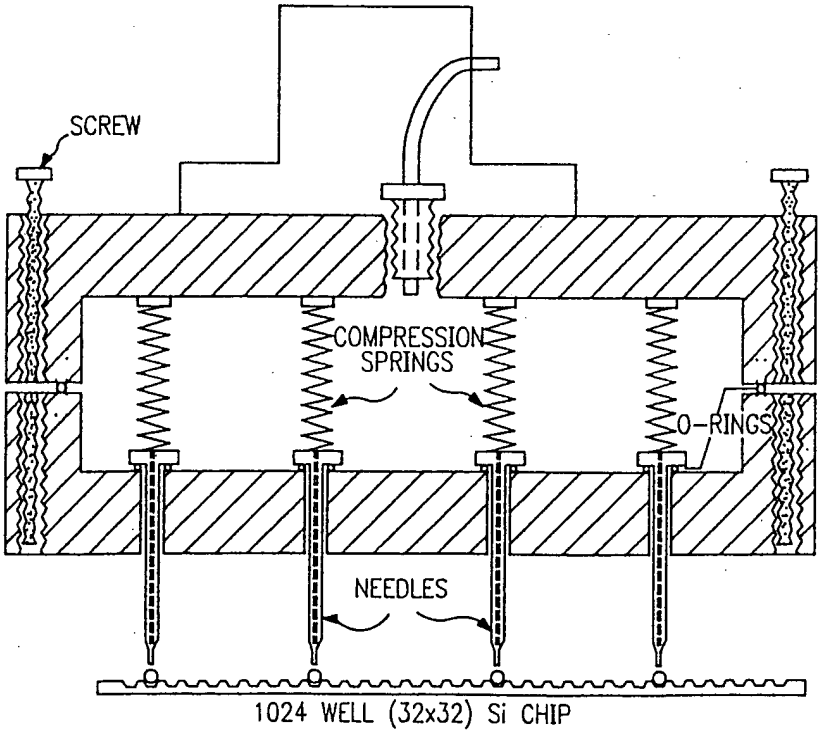
SCREW
COMPRESSION SPRINGS
O-RINGS
NEEDLES
1024 WELL (32x32) Si CHIP

FIG. 5B

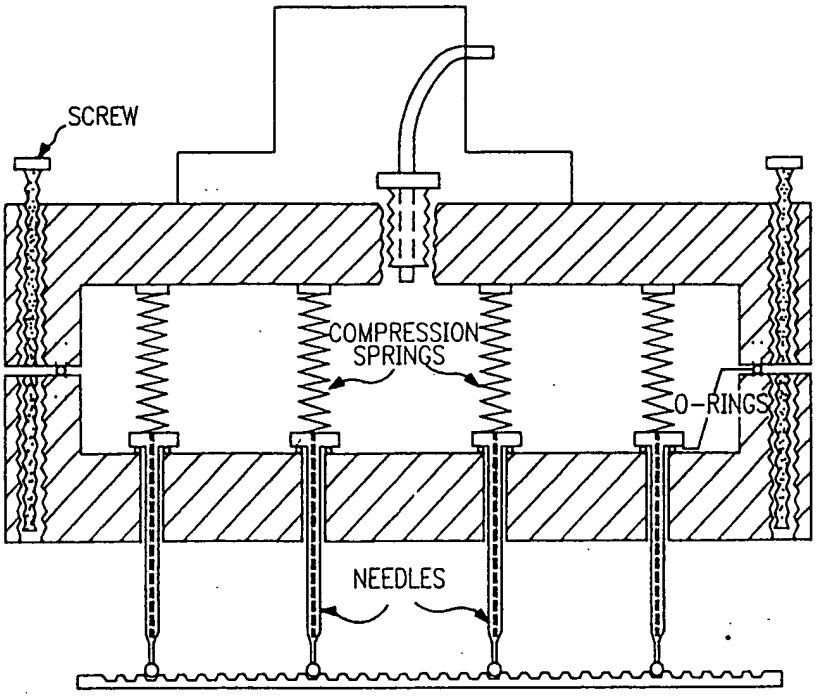
SCREW
COMPRESSION SPRINGS
O-RINGS
NEEDLES

FIG. 5C

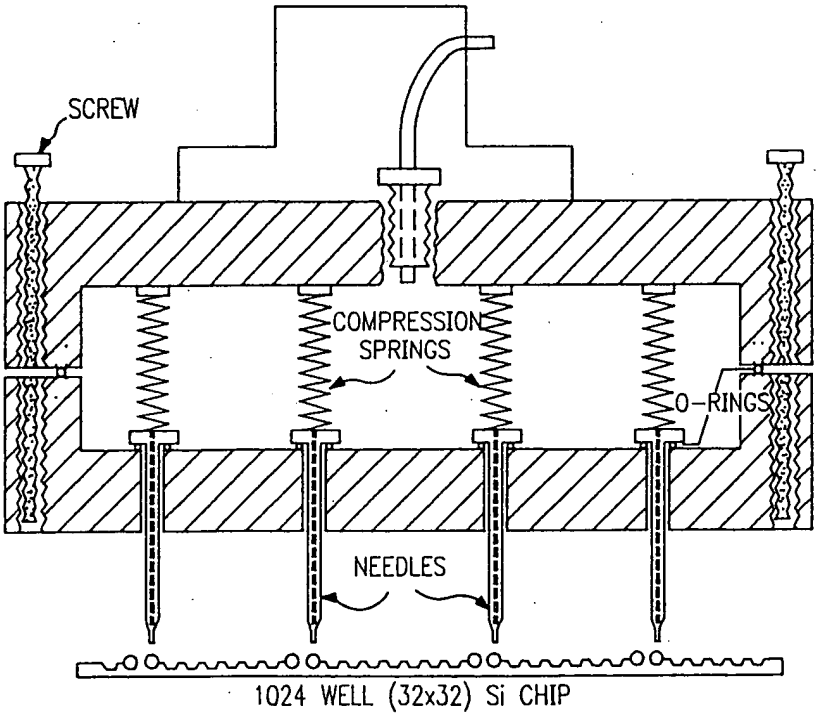
SCREW
COMPRESSION SPRINGS
O-RINGS
NEEDLES
1024 WELL (32x32) Si CHIP

FIG. 5D

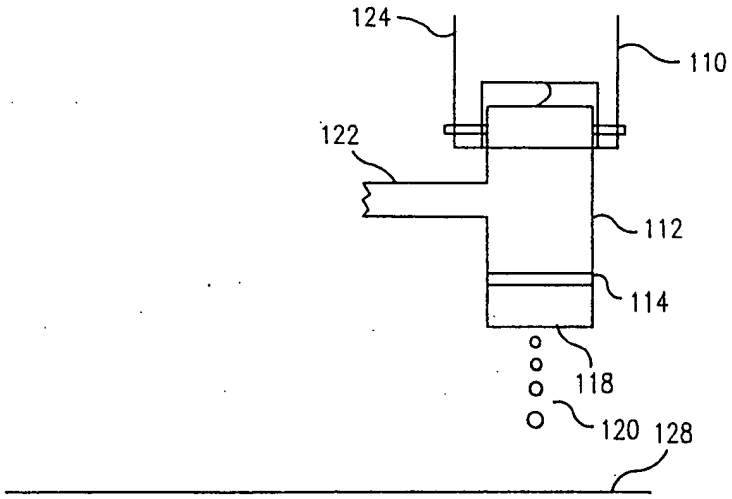

FIG. 6A

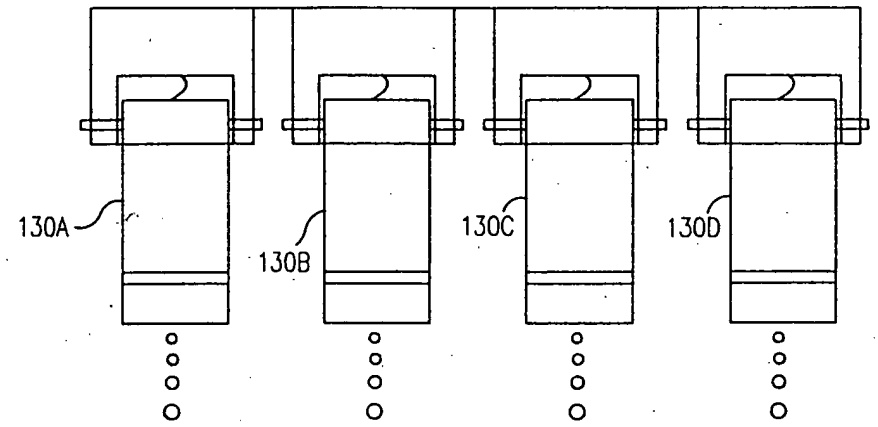

FIG. 6B

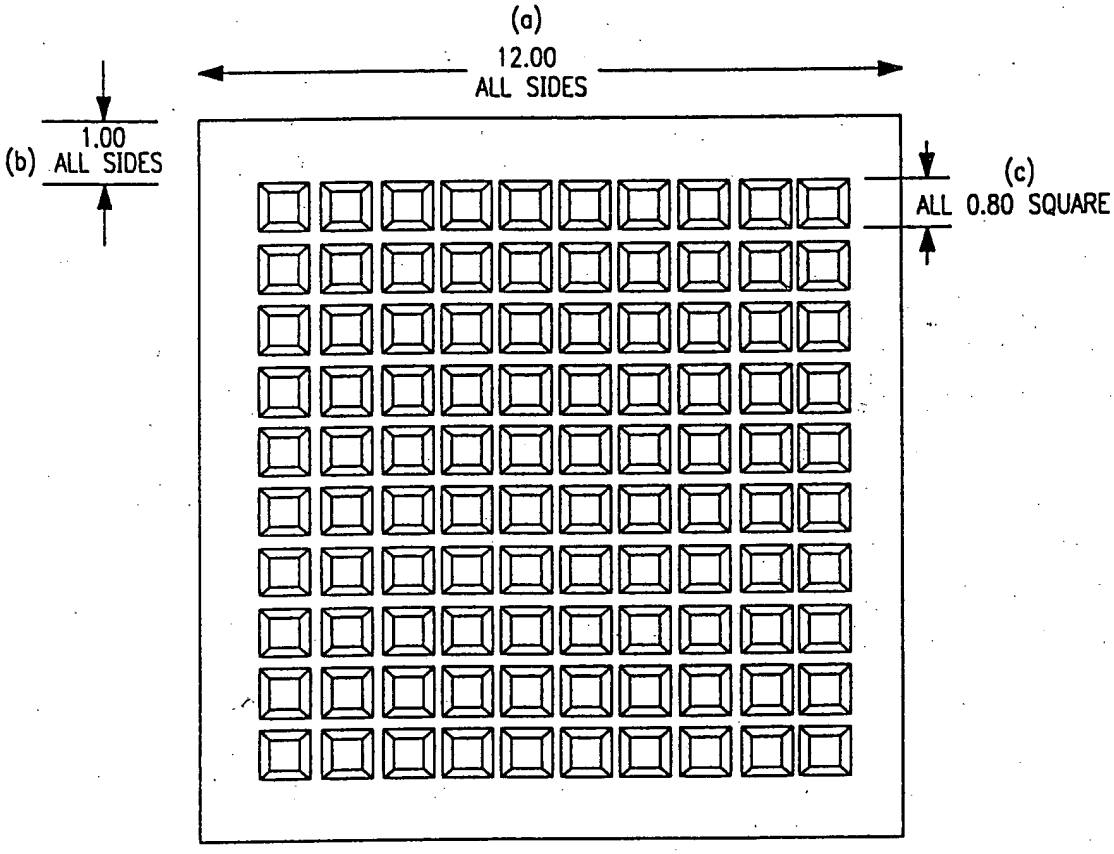

FIG. 7

Title: SYSTEMS AND METHODS FOR PREP[illegible] AND ANALYZING LOW VOLUME ANALYT[illegible]AY ELEMENTS.
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23-MER (6nL of 1.4uM = 8.6fmol)
10x10 850x850um (99um DEPTH) WELLS.

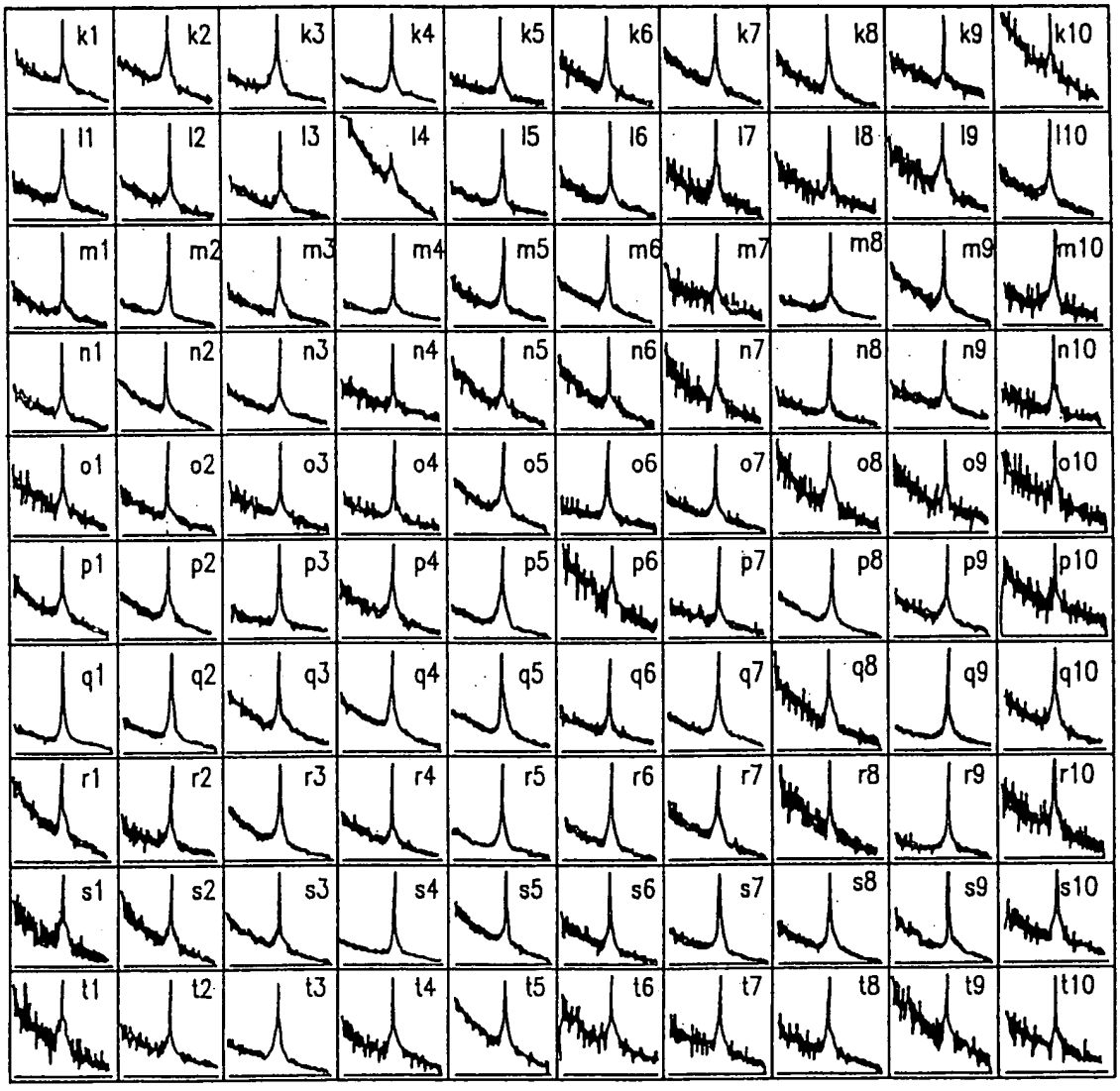

FIG. 8

k1 6968 Da 170 RP	k2 6968 Da 100 RP	k3 6988 Da 90 RP	k4 6977 Da 100 RP	k5 6971 Da 170 RP	k6 6968 Da 110 RP	k7 6972 Da 160 RP	k8 6978 Da 110 RP	k9 6952 Da 250 RP	k10 6965 Da 300 RP
l1 6965 Da 130 RP	l2 6989 Da 140 RP	l3 6982 Da 210 RP	l4 6996 Da 50 RP	l5 6982 Da 160 RP	l6 6968 Da 180 RP	l7 6984 Da 130 RP	l8 6968 Da 200 RP	l9 6996 Da 80 RP	l10 6968 Da 100 RP
m1 6966 Da 190 RP	m2 6979 Da 120 RP	m3 6975 Da 120 RP	m4 6968 Da 190 RP	m5 6976 Da 110 RP	m6 6986 Da 120 RP	m7 6973 Da 160 RP	m8 6978 Da 160 RP	m9 6975 Da 230 RP	m10 6955 Da 250 RP
n1 6961 Da 340 RP	n2 6971 Da 180 RP	n3 6970 Da 150 RP	n4 6960 Da 300 RP	n5 6985 Da 120 RP	n6 6953 Da 210 RP	n7 6971 Da 140 RP	n8 6962 Da 160 RP	n9 6957 Da 150 RP	n10 6960 Da 160 RP
o1 6965 Da 140 RP	o2 6960 Da 230 RP	o3 6976 Da 200 RP	o4 6953 Da 250 RP	o5 6983 Da 110 RP	o6 6967 Da 250 RP	o7 6970 Da 150 RP	o8 6973 Da 70 RP	o9 6953 Da 140 RP	o10 6952 Da 140 RP
p1 6976 Da 140 RP	p2 6981 Da 90 RP	p3 6972 Da 180 RP	p4 6969 Da 90 RP	p5 6984 Da 130 RP	p6 6968 Da 100 RP	p7 6958 Da 290 RP	p8 6981 Da 100 RP	p9 6978 Da 110 RP	p10 6965 Da 150 RP
q1 6976 Da 170 RP	q2 6985 Da 100 RP	q3 6990 Da 120 RP	q4 6989 Da 90 RP	q5 6984 Da 90 RP	q6 6969 Da 170 RP	q7 6979 Da 70 RP	q8 6968 Da 140 RP	q9 6973 Da 120 RP	q10 6950 Da 120 RP
r1 6966 Da 130 RP	r2 6960 Da 150 RP	r3 6969 Da 100 RP	r4 6964 Da 180 RP	r5 6966 Da 130 RP	r6 6970 Da 110 RP	r7 6972 Da 90 RP	r8 6939 Da 130 RP	r9 6951 Da 230 RP	r10 6965 Da 200 RP
s1 6963 Da 130 RP	s2 6953 Da 210 RP	s3 6970 Da 120 RP	s4 6971 Da 170 RP	s5 6957 Da 130 RP	s6 6956 Da 160 RP	s7 6966 Da 140 RP	s8 6975 Da 120 RP	s9 6951 Da 230 RP	s10 6969 Da 120 RP
t1 6974 Da 90 RP	t2 6958 Da 160 RP	t3 6959 Da 120 RP	t4 6952 Da 100 RP	t5 6959 Da 110 RP	t6 6954 Da 100 RP	t7 6950 Da 160 RP	t8 6974 Da 140 RP	t9 6967 Da 150 RP	t10 6950 Da 230 RP

LASER POWER = 41000 FOR ALL SPECTRA.
EACH SPECTRUM THE SUM OF 10–30 SINGLE SHOTS.

FIG. 9